CLAIMS

- 1. Process for manufacturing a flexible sleeve intended to serve as interface between a prosthesis or an orthesis and a portion of a patient's limb, characterized in that it comprises the following successive steps:
- a sleeve preform (2) is chosen, which consists of a prefabricated hollow element made of a flexible thermoformable material, of approximately conical or cylindrical shape, having a closed end of rounded shape, the dimensions of which are matched to those of the stump intended to be fitted with the prosthesis or with the orthesis;
 - this preform (2) is heated until it softens;
- this softened preform is slipped over the stump or over a replica (1) thereof;
- the shape of the softened preform (2) is matched to that of the stump or of its replica (1);
- the preform (2) thus shaped is left to cool on the stump or on its replica;
- the flexible cooled preform, which constitutes the desired sleeve (4), is removed from the stump or from its replica.
- 2. Process according to claim 1, characterized in that the flexible preform (2) is made of a polyolefin foam or ethylene-vinyl acetate foam by themselves or as a blend with other thermoformable materials.
- 3. Process according to either of claims 1 and 2,

characterized in that the softened flexible preform (2) is made to the shape of the stump or of the replica (1) thereof by exerting pressure outside this preform.

- 4. Process according to either of claims 1 and 2, characterized in that the softened flexible preform (2) is made to the shape of the stump or of the replica (1) thereof by exhibiting a vacuum inside this preform.
- 5. Flexible sleeve preform (2) which can be used in the process according to one of claims 1 to 4, characterized in that it consists of a prefabricated hollow element, made of a flexible thermoformable material, of approximately conical or cylindrical shape, having a closed end of rounded shape.
- 6. Preform according to claim 5, characterized in that it is made of a polyolefin foam or ethylene-vinyl acetate foam, by themselves or as a blend with other thermoformable materials.
- 7. Flexible sleeve for a prosthesis or orthesis, manufactured by a process according to one of claims 1 to 4.